

SEQUENCE LISTING

<110> Rupert, PFALLER

<120> pyrF GENE AND ITS USE

<130> PFALLER-1 US PCT

<150> PCT/EP00/06091

<151> 2000-06-29

<160> 7

<170> PatentIn version 3.1

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<211> 3448

<212> DNA

<213> *Trametes versicolor*

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gcc ggt gcg ctc aag ttc ggg acc ttc acc ctc aaa tca ggc cgg acc	96
Ala Gly Ala Leu Lys Phe Gly Thr Phe Thr Leu Lys Ser Gly Arg Thr	
20 25 30	
tcg ccc tac ttc ttc aac gcc ggc ctg ctc gcg tcc ggg ccc gtg ctc	144
Ser Pro Tyr Phe Phe Asn Ala Gly Leu Leu Ala Ser Gly Pro Val Leu	
35 40 45	
gac acg ctg tgc tcc gcg tac gcc gcg acg atc gcg cgc gcg ctc aag	192
Asp Thr Leu Cys Ser Ala Tyr Ala Ala Thr Ile Ala Arg Ala Leu Lys	
50 55 60	
gcg tcg ccc ggg ctg ccc gcg ttc gac gtg ctc ttc ggg ccc gcg tac	240
Ala Ser Pro Gly Leu Pro Ala Phe Asp Val Leu Phe Gly Pro Ala Tyr	
65 70 75 80	
aag ggc atc ccg ttc gcg gcg ggg acc gcg ctg ctg ctg cac cgc gac	288
Lys Gly Ile Pro Phe Ala Ala Gly Thr Ala Leu Leu Leu His Arg Asp	
85 90 95	
cac ggc atc acc gtc ggg ttc gcg tac gac cgc aag gag gcg aag gat	336
His Gly Ile Thr Val Gly Phe Ala Tyr Asp Arg Lys Glu Ala Lys Asp	
100 105 110	
cat ggg gag ggc ggg ata ctt gtg ggc gcg ccg gtg agg ggc aag cgc	384
His Gly Glu Gly Gly Ile Leu Val Gly Ala Pro Val Arg Gly Lys Arg	
115 120 125	
gtg ctg gtg ctg gac gac gtc gcg acg gcg ggc acg gcg atc cgc cag	432
Val Leu Val Leu Asp Asp Val Ala Thr Ala Gly Thr Ala Ile Arg Gln	
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gcg att gag act gtg acg aag gag ggg ggc gag gtc gtt ggc gcg gtg	480
Ala Ile Glu Thr Val Thr Lys Glu Gly Gly Glu Val Val Gly Ala Val	
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 165 170 175

gcg gag gtg gag gcg ctg ttg ggc ggg aag gga cgt gtg ccg acg atc 576
 Ala Glu Val Glu Ala Leu Leu Gly Gly Lys Gly Arg Val Pro Thr Ile
 180 185 190

ctg agg atg aag gac ctc atg aag tgg ttg cag gag cac ggc cgg acg 624
 Leu Arg Met Lys Asp Leu Met Lys Trp Leu Gln Glu His Gly Arg Thr
 195 200 205

gag gag ctt gcg aag atg caa gag tac tgg gag cag tac ggc gcg aag 672
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gaa agc gaa tga 684
 Glu Ser Glu
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Ser Pro Tyr Phe Phe Asn Ala Gly Leu Leu Ala Ser Gly Pro Val Leu
 35 40 45

Asp Thr Leu Cys Ser Ala Tyr Ala Ala Thr Ile Ala Arg Ala Leu Lys
 50 55 60

Ala Ser Pro Gly Leu Pro Ala Phe Asp Val Leu Phe Gly Pro Ala Tyr
 65 70 75 80

Lys Gly Ile Pro Phe Ala Ala Gly Thr Ala Leu Leu Leu His Arg Asp
 85 90 95

His Gly Ile Thr Val Gly Phe Ala Tyr Asp Arg Lys Glu Ala Lys Asp
100 105 110

His Gly Glu Gly Gly Ile Leu Val Gly Ala Pro Val Arg Gly Lys Arg
115 120 125

Val Leu Val Leu Asp Asp Val Ala Thr Ala Gly Thr Ala Ile Arg Gln
130 135 140

Ala Ile Glu Thr Val Thr Lys Glu Gly Gly Glu Val Val Gly Ala Val
145 150 155 160

Leu Met Leu Asp Arg Gln Glu Val Gly Lys Glu Gly Lys Ser Thr Leu
165 170 175

Ala Glu Val Glu Ala Leu Leu Gly Gly Lys Gly Arg Val Pro Thr Ile
180 185 190

Leu Arg Met Lys Asp Leu Met Lys Trp Leu Gln Glu His Gly Arg Thr
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